



Australian Government

Assessment Requirements for UETTD RIS35 Perform remote community network field switching to a given schedule

Release: 1

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Modification History

Release 1. This is the first release of this unit of competency in the UET Transmission, Distribution and Rail Sector Training Package.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least two separate occasions and include:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements, including the use of risk control measures
- applying sustainable energy principles and practices
- performing the following:
 - approvals/clearances
 - access authority/permits
- using any two (2) of the following specialist testing devices:
 - voltage detectors
 - polarity testers
 - phase rotation indicators
- operating low voltage (LV) switchgear, including any one (1) of the following:
 - LV links
 - LV bridges
 - LV fuses
- dealing with unplanned events on at least one (1) occasion.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- legislation, standards, codes, supply authority regulations and/or enterprise requirements applicable to system switching
- requirements for the use of manuals, system diagrams/plans and drawings, including:
 - types, characteristics and capabilities of electrical apparatus
 - use, characteristics and capabilities of specialised tools and testing equipment
 - LV network interconnectors for alternate sources of supply and possible back-feed
 - high voltage (HV) network interconnectors source of possible back-feed

- procedures for obtaining correct LV switching authorisation, including:
 - identification of hazards, assessing and controlling risks
 - safety procedures and precautions
 - safe approach distances
 - responsibilities and protocols
 - identifying switching resources
 - procedures for obtaining electrical access permits/authorities
 - requirements for team switching
 - procedures for coordination of operations
- techniques in LV system switching, including:
 - isolation procedures and proving dead
 - pre-switching checks
 - switching operational procedures
 - emergency fault procedures
 - energisation procedures
- role of the HV switching operator
- procedures for obtaining correct HV switching authorisation, including:
 - identification of WHS/OHS hazards, and assessing and controlling risks
 - safety procedures and precautions
 - safe approach distances
 - responsibilities and protocols
 - identifying switching resources
 - procedures for obtaining electrical access permits/authorities
 - requirements for team switching
 - procedures for coordination of operations
- use and operation of equipment associated with HV overhead and substation equipment, including:
 - test instruments
 - sticks
 - interrupters
 - arc strangles
- operation of protection systems and substation equipment, such as:
 - fault levels and settings, types and applications, protection systems and substation equipment fault levels and settings, and types and applications
- types and categories of HV switchgear
- application, function and operating capabilities of switchgear
- restrictions pertaining to HV switching equipment
- procedures for the isolation of HV transmission main and working earths
- earthing HV electrical apparatus practices and procedures for access, including:
 - purposes of operational and additional work part - on-site earths

- factors determining the location and effectiveness of operational earthing
- acceptable industry procedures
- personal protective equipment (PPE)
- HV switching techniques, including:
 - pre-switching checks
 - switching operational procedures
 - isolation procedures and proving dead/de-energised
 - earthing procedures
 - emergency fault procedures
 - energisation procedures
- application and function of single wire earth return (SWER) system components, including:
 - circuit arrangement
 - principle of operation
 - hazards and procedures associated with faulty SWER earth systems
 - procedure to isolate, energise and commission SWER substations
- operation of HV overhead switching or indicating devices, including:
 - identifying hazards, assessing and controlling risks associated with HV switchgear operation
 - systematic and defensive techniques
 - mobile radio procedures
 - double isolation procedures
 - fuses, disconnect fuses, load switching, live line indicators, capacitors, reclosers, sectionalisers, underslung links, airbreaks, switches, disconnects, live line clamps, phasing sticks and phasing tester.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated conditions involving realistic and authentic activities that replicate operational workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other simulations
- relevant and appropriate materials, tools, facilities, equipment and PPE currently used in industry for performing remote community network field switching to a given schedule

- applicable documentation, including workplace procedures, relevant industry standards, equipment specifications, regulations, codes of practice and operation manuals.

Links

UET Training Package Companion Volume Implementation Guide is found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=229bace1-b7bc-4653-9300-dffb13ecfad7>